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The Central Aerological Observatory was organized comparatively recently to study the free atmosphere and to develop proper methods of study. Already this new institution lists many important achievements, including an improved radio-sound construction, improved methodology for vertical airplane sounding and horizontal weather surveying using airplanes, atmospheric studies using balloons, etc.

The Central Construction Bureau is working to improve the technical equipment of the hydrometeorological network, by devising experimental models of new instruments and by implementing their series production. The bureau includes an experimental plant.

The bureau numbers among its accomplishments the development of an automatic radio meteorological station, several of which are already in operation, and a gas barometer which replaces the aneroid.

The Central Scientific Research Institute of the Hydrometeorological Archives is attempting to mechanize the processing of the results of hydrometeorological observations. Since the network of stations and the expeditions of the Hydrometeorological Service produce an immense amount of numerical data, the use of computers for processing these observations is very important. Mechanized processing becomes particularly important in the analysis of the behavior of a set of elements instead of a single element.

The Institute of Terrestrial Magnetism, with the aid of a network of observatories, observes regularly the state of the earth's magnetic field. Recently, this institution organized an ionospheric service, a systematic study of the state of the atmosphere by means of observations on radiowave propagation.

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